

ABSTRACT OF THE DISCLOSURE

A method in an access point of a communication system for scheduling spatial transport formats. The access point transmits signals of data streams using a set of one or more antennas to a plurality of mobile terminals. The method determines a set of spatial transport formats comprising, for each format, at least one vector of complex transmission weights and delays. Each vector is associated with the transmission of one of a determined signal of interest or one of a number of multiplexed co-channel signals, and each vector is associated with a transmission power value of its associated signal. Each vector element is associated with one antenna. A subset of the transport formats is selected as an active set for data transmission to at least one of the mobile terminals. The active set of transport formats is then signaled to the at least one mobile terminal.